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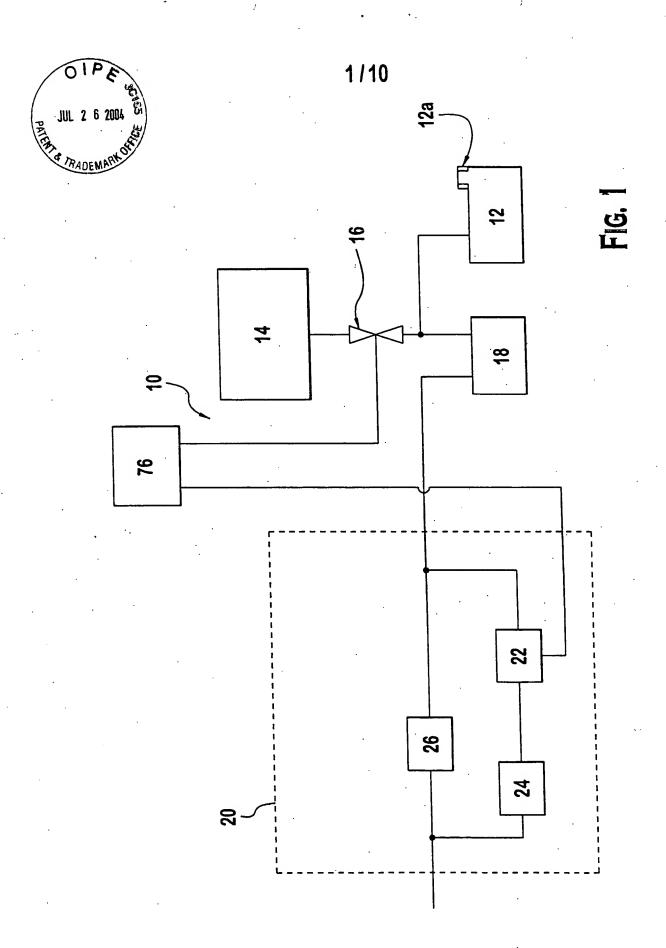
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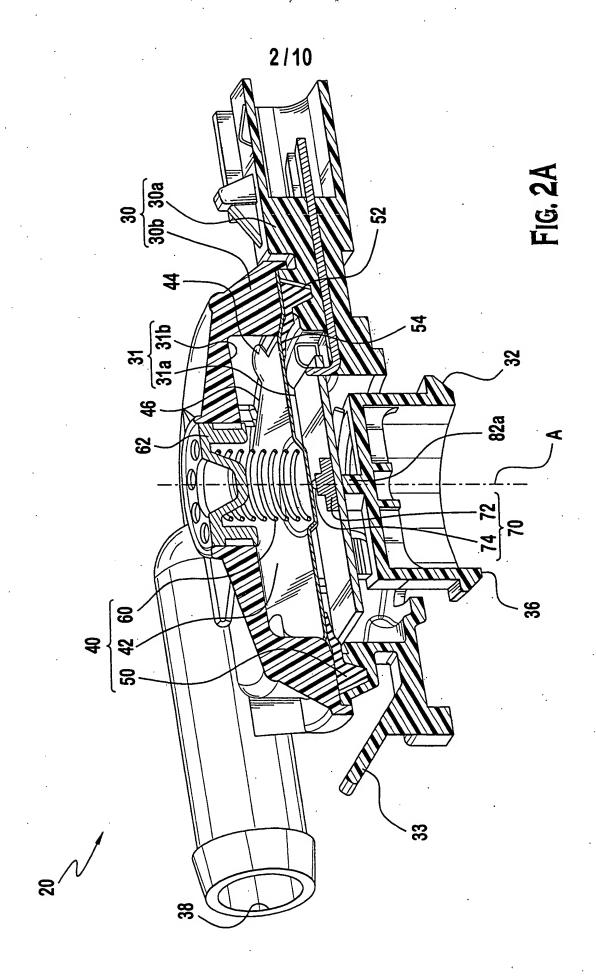
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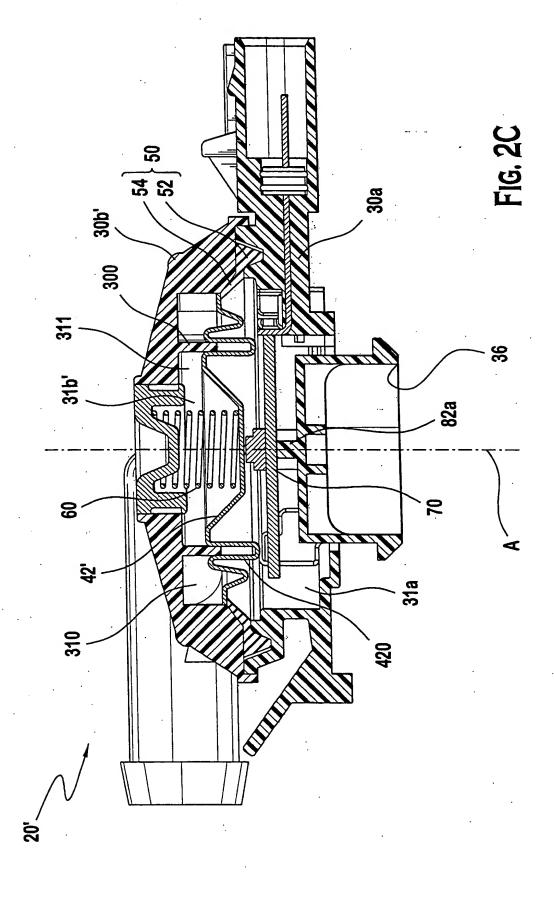
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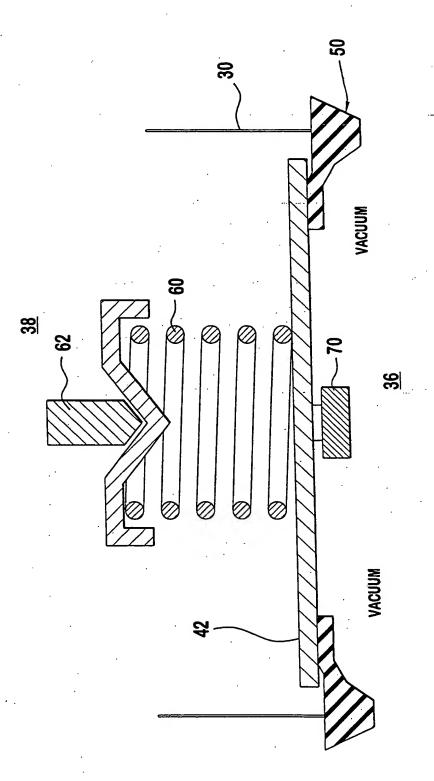


FIG. 3A

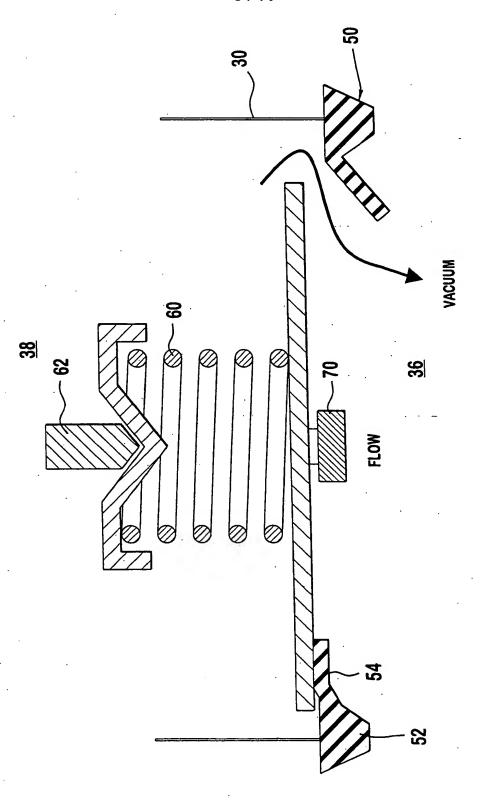
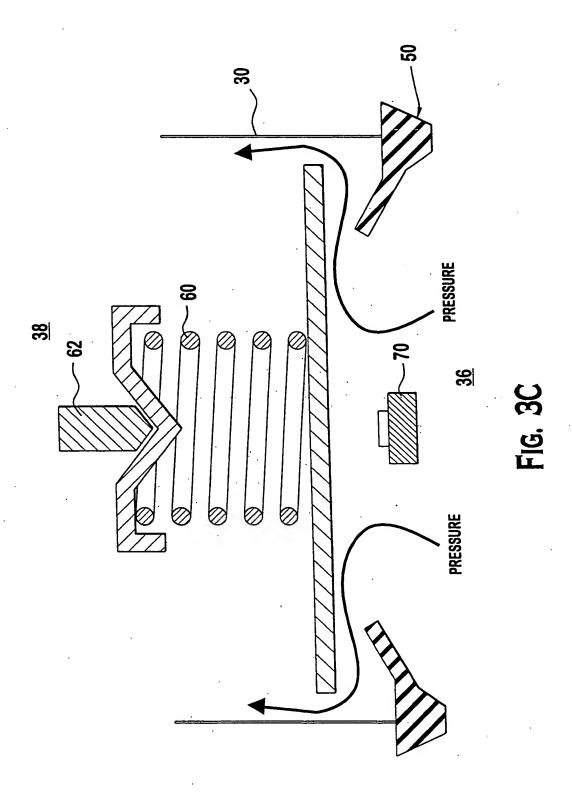
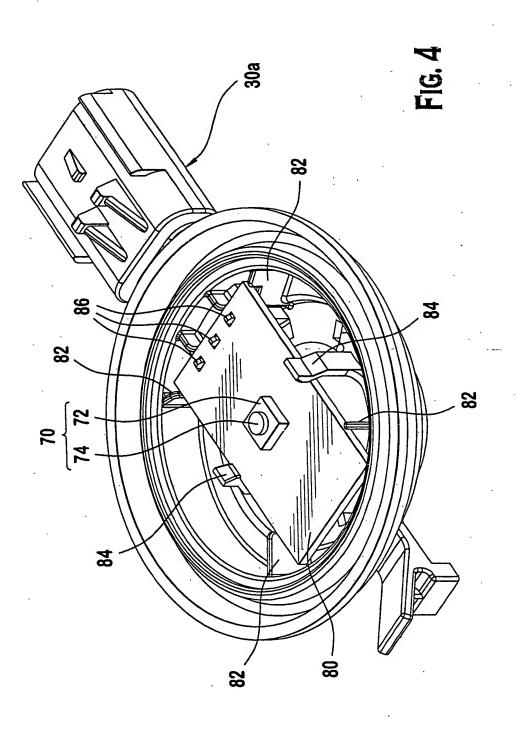
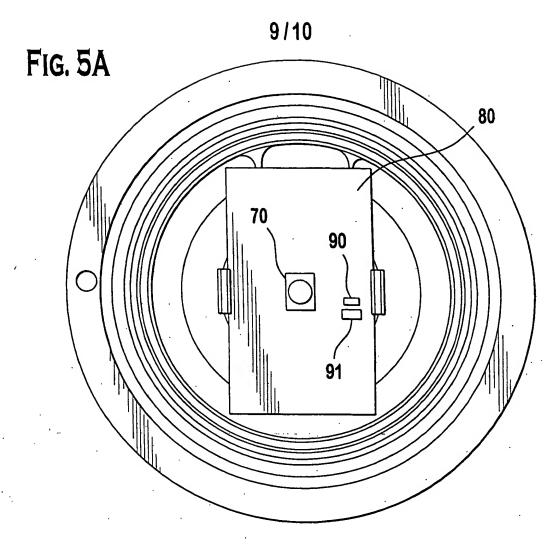
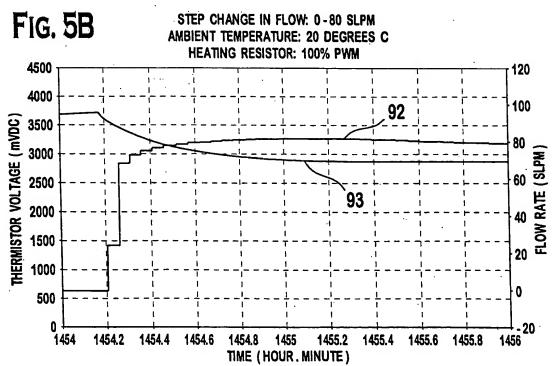


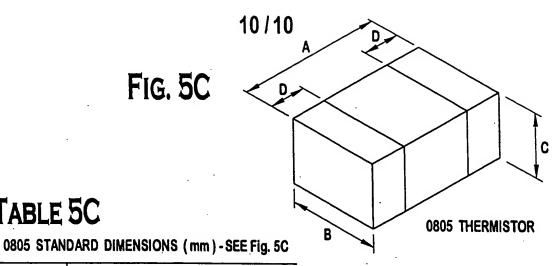
FIG. 3B











	AVERAGE	LARGEST	SMALLEST
Α	2	2.2	1.8
В	1.25	1.45	1.05
<b>C</b> .	0.9	1.1	0.7
D	0.5	0.8	0.2
A - (2xD)	1	1.8	0.2

### TABLE 5D

TABLE 5C

**CALCULATIONS:** 

#### \*USING AVERAGE DIMENSIONS

MATERIAL I	RESISTIVITY	(Ohm*m) WIDTH (me	eters) WIDTH (mils)	HEIGHT (met	ers) HEIGHT (ounce)
COPPER	1.68E -	0.001	39.37007874	6.82498E-0	5 2
NICKEL	6.99E -	0.001	39.37007874	6.82498E-0	5 2
GOLD	2.21E -	0.001	39.37007874	6.82498E-0	)5 2
AREA (m^2	-	LENGTH (meters)	RESISTANCE (ohms)		POWER (Watts = J/s)
	(inches)		•	(Amps)	•
6.82498E-08	3 0.5	0.0127	0.003126163	2	0.012504652
6.82498E-08	3 0.5	0.0127	0.013007071	2	0.052028284
6.82498E-08	3 0.5	0.0127	0.004112393	2	0.016449572

## TABLE 5E

CALCULATIONS:	*RESISTIVITY = $260 \Omega / \text{cm}^2$
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		•		
<u>DIMENSIONS</u>	LENGTH = $A - (2xD)$ (mm)	WIDTH = b (mm)	AREA ( mM^2)	AREA (cm^2)
<b>AVERAGE</b>	1	1.25	1.25	0.0125
LARGEST	1.8	1.45	2.61	0.0261
SMALLEST	0.2	1.05	0.21	0.0021
	RESISTANCE (ohms)	CURRENT (A)	POWER (W = J/s)	
	3.25	1	3.25	•
	6.786	1	6.786	
	0.546	1	0.546	•